

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT																		
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Conveying Party Data previously recorded on Reel 028785 Frame 0613. Assignor(s) hereby confirms the assignment.																		
CONVEYING PARTY DATA																			
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Minseok S. KIM</td> <td>07/23/2012</td> </tr> <tr> <td>Sun-soo KIM</td> <td>07/23/2012</td> </tr> <tr> <td>Jin-hoon KIM</td> <td>07/23/2012</td> </tr> <tr> <td>Won-ho LEE</td> <td>07/23/2012</td> </tr> <tr> <td>Jeong-gun LEE</td> <td>07/23/2012</td> </tr> <tr> <td>Tae-seok SIM</td> <td>07/23/2012</td> </tr> <tr> <td>Sang-hyun BAEK</td> <td>07/23/2012</td> </tr> <tr> <td>Hyo-young JEONG</td> <td>07/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Minseok S. KIM	07/23/2012	Sun-soo KIM	07/23/2012	Jin-hoon KIM	07/23/2012	Won-ho LEE	07/23/2012	Jeong-gun LEE	07/23/2012	Tae-seok SIM	07/23/2012	Sang-hyun BAEK	07/23/2012	Hyo-young JEONG	07/23/2012
Name	Execution Date																		
Minseok S. KIM	07/23/2012																		
Sun-soo KIM	07/23/2012																		
Jin-hoon KIM	07/23/2012																		
Won-ho LEE	07/23/2012																		
Jeong-gun LEE	07/23/2012																		
Tae-seok SIM	07/23/2012																		
Sang-hyun BAEK	07/23/2012																		
Hyo-young JEONG	07/23/2012																		
RECEIVING PARTY DATA																			
<table border="1"> <tr> <td>Name:</td> <td>Samsung Electronics Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>129, Samsung-ro, Yeongtong-gu</td> </tr> <tr> <td>City:</td> <td>Suwon-si, Gyeonggi-do</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>443-742</td> </tr> </table>		Name:	Samsung Electronics Co., Ltd.	Street Address:	129, Samsung-ro, Yeongtong-gu	City:	Suwon-si, Gyeonggi-do	State/Country:	KOREA, REPUBLIC OF	Postal Code:	443-742								
Name:	Samsung Electronics Co., Ltd.																		
Street Address:	129, Samsung-ro, Yeongtong-gu																		
City:	Suwon-si, Gyeonggi-do																		
State/Country:	KOREA, REPUBLIC OF																		
Postal Code:	443-742																		
PROPERTY NUMBERS Total: 1																			
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13584552</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13584552														
Property Type	Number																		
Application Number:	13584552																		
CORRESPONDENCE DATA																			
Fax Number:	3126165700																		
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
Phone:	(312) 616-5600																		
Email:	assignments@leydig.com																		
Correspondent Name:	John L. Gase																		
Address Line 1:	Leydig, Voit & Mayer, Ltd.																		
Address Line 2:	Two Prudential Plaza, Suite 4900																		
Address Line 4:	Chicago, ILLINOIS 60601-6731																		

CH \$40.00 13584552

ATTORNEY DOCKET NUMBER:	709918
NAME OF SUBMITTER:	John L. Gase
Signature:	/John L. Gase/
Date:	05/24/2013
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

ASSIGNMENT

WHEREAS, I/WE

Minseok S. KIM, Sun-soo KIM, Jin-hoon KIM, Won-ho LEE, Jeong-gun LEE, Tae-seok SIM, Sang-hyun BAEK, Hyo-young JEONG, all c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea

hereinafter referred to as Assignor, have invented a certain invention entitled:

FLUID CONTROLLING APPARATUS AND FILTER AND BIOCHIP INCLUDING THE FLUID CONTROLLING APPARATUS

for which invention an application (provisional or non-provisional) for a U.S. patent was filed on August 13, 2012, under U.S. Application No. 13/584,552, and

WHEREAS, SAMSUNG ELECTRONICS CO., LTD. of 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title, and interest in, to, and under the invention described in the patent application, including the entire priority right derived from the application,

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

Assignor assigns and transfers to Assignee and Assignee's legal representatives, successors, and assigns the entire right, title, and interest in, to, and under the invention, the referenced patent application, and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, national and regional phase applications, petty patent applications, and utility model applications) that may be filed in the U.S. and/or any country foreign to the U.S. on the invention, and the patents that may issue thereon,

Assignor conveys to the Assignee the right to make applications in Assignee's own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim priority to the referenced patent application and other such applications that may be filed in the U.S. or any country foreign to the U.S. on the invention under the Patent Cooperation Treaty, the Paris Convention, and any other international arrangements,

Assignor will not execute any writing or do any act conflicting with the terms of this assignment,

Assignor will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to pursue the patent applications identified herein, including, but not limited to, rendering all necessary assistance in making applications for and obtaining patents that may issue thereon in the U.S. and any

countries foreign to the U.S. on the invention, and in enforcing any rights accruing as a result of such applications or patents, by, for example, executing statements and other affidavits,

Assignor and Assignee agree the terms of this assignment shall bind, and inure to the benefit of, the legal representatives, successors, and assigns of all parties hereto,

Assignor authorizes Assignee to insert in this assignment the number and filing date of the application if the number and filing date of the application are not recited herein at the time of execution of this assignment by any or all of the parties hereto,

Assignor and Assignee agree that U.S. law governs this assignment, and

Assignee acknowledges and accepts this assignment.

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

Date July 23, 2012


Assignor: Minseok S. KIM

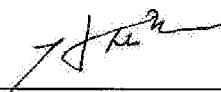
=====

Date July 23, 2012


Assignor: Sun-soo KIM

=====

Date July 23, 2012


Assignor: Jin-hoon KIM

=====

Date July 23, 2012


Assignor: Won-ho LEE


=====

Date July 23, 2012


Assignor: Jeong-gun LEE

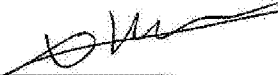
=====

Date July 23, 2012


Assignor: Tae-seok SIM

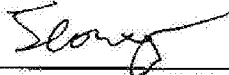
=====

Date July 23, 2012


Assignor: Sang-hyun BAEK

=====

Date July 23, 2012


Assignor: Hyo-young JEONG

=====